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 gtctcgagtg gtggcggcgg gatccggggg aggaggtagt ggcggtggtg gatcagacat 420
 ccagatgacc cagtctccat cctccctgtc tgcattctgta ggggacagag tcaccatcac 480
 ttgtcgggca agtcagggca tcagaaatta cttagcctgg tatcagcaaa aaccagggaa 540
 agcccctaag ctctgatct atgctgcac cactttgcaa tcaggggtcc catctcggtt 600
 cagtggcagt ggatctggga cagatttcac tctcaccatc agcagcctac agcctgaaga 660
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 caaggtggaa atcaaataag ctt 743

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 <211> 44
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<210> 56
 <211> 758
 <212> DNA
 <213> Homo sapiens

<400> 56
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 cagagtcacc atcacttgtc gggcaagtca gggcatcaga aattacttag cctgggtatca 540
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 ggtcccatct cggttcagtg gcagtggatc tgggacagat ttcactctca ccatcagcag 660
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 ttttggccag gggaccaagg tggaaatcaa ataagctt 758

<210> 57
 <211> 38
 <212> DNA
 <213> Homo sapiens

<400> 57
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<210> 58
 <211> 18
 <212> DNA
 <213> Homo sapiens

<400> 58
 catgcaggta cccagcag 18

<210> 59
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 <212> DNA

<213> Homo sapiens
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 ctgctgggta cctgcatg 18

<210> 60
 <211> 32
 <212> DNA
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<210> 61
 <211> 354
 <212> DNA
 <213> Homo sapiens
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 cccgaagagc agtactggga tcctctgctg ggtacctgca tgtcctgcaa aaccatttgc 180
 aaccatcaga gccagcgcac ctgtgcagcc ttctgcaggt cactcagctg ccgcaaggag 240
 caaggcaagt tctatgacca tctcctgagg gactgcatca gctgtgcctc catctgtgga 300
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<210> 62
 <211> 31
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 <213> Homo sapiens
 <400> 62
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<210> 63
 <211> 366
 <212> DNA
 <213> Homo sapiens
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 cccgaagagc agtactggga tcctctgctg ggtacctgca tgtcctgcaa aaccatttgc 180
 aaccatcaga gccagcgcac ctgtgcagcc ttctgcaggt cactcagctg ccgcaaggag 240

caaggcaagt tctatgacca tctcctgagg gactgcatca gctgtgcctc catctgtgga	300
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ggtacc	366

<210> 64
 <211> 31
 <212> DNA
 <213> Homo sapiens

<400> 64	
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<210> 65
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 65	
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cccgaagagc agtactggga tcctctgctg ggtacctgca tgtcctgcaa aaccatttgc	180
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caaggcaagt tctatgacca tctcctgagg gactgcatca gctgtgcctc catctgtgga	300
cagcacccta agcaatgtgc atacttctgt gagaacaagc tcaggagccc agtgaacctt	360
ccaccagagc tcaggagaca gcggagtggg ggtacc	396

<210> 66
 <211> 36
 <212> DNA
 <213> Homo sapiens

<400> 66	
cggcacggta ccagggctca acagacttaa caaaag	36

<210> 67
 <211> 426
 <212> DNA
 <213> Homo sapiens

<400> 67	
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cccgaagagc agtactggga tcctctgctg ggtacctgca tgtcctgcaa aaccatttgc	180

aaccatcaga gccagcgcac ctgtgcagcc ttctgcaggt cactcagctg ccgcaaggag 240
caaggcaagt tctatgacca tctcctgagg gactgcatca gctgtgcctc catctgtgga 300
cagcacccta agcaatgtgc atacttctgt gagaacaagc tcaggagccc agtgaacctt 360
ccaccagagc tcaggagaca gcggagtgga gaagttgaaa acaattcaga caactcggga 420
ggtacc 426

<210> 68
<211> 31
<212> DNA
<213> Homo sapiens

<400> 68
cggcacggta ccgctgtaga ccagggccac c 31

<210> 69
<211> 519
<212> DNA
<213> Homo sapiens

<400> 69
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cccgaagagc agtactggga tctctgctg ggtacctgca tgtcctgcaa aaccatttgc 180
aaccatcaga gccagcgcac ctgtgcagcc ttctgcaggt cactcagctg ccgcaaggag 240
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cagcacccta agcaatgtgc atacttctgt gagaacaagc tcaggagccc agtgaacctt 360
ccaccagagc tcaggagaca gcggagtgga gaagttgaaa acaattcaga caactcggga 420
aggtaccaag gattggagca cagaggctca gaagcaagtc cagctctccc ggggctgaag 480
ctgagtgcag atcaggtggc cctggtctac agcgggtacc 519

<210> 70
<211> 41
<212> DNA
<213> Homo sapiens

<400> 70
ggccagggat ccatcgaggg taggggggag caagcgccag g 41

<210> 71
<211> 31

<212> DNA
 <213> Homo sapiens

 <400> 71
 cggtgcggta ccgggccaaa gcagccggaa g 31

 <210> 72
 <211> 186
 <212> DNA
 <213> Homo sapiens

 <400> 72
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 tcctggagcg cggacctgga caagtgcatt gactgcgcgt cttgcagggc gcgaccgcac 120
 agcgacttct gcctgggctg cgctgcagca cctcctgcc ccttcgggt gctttggccc 180
 ggtacc 186

 <210> 73
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 73
 ggccagggat ccatcgaggg taggatgagg cgagggcccc g 41

 <210> 74
 <211> 28
 <212> DNA
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 <400> 74
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 <210> 75
 <211> 258
 <212> DNA
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 <400> 75
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 tgcgggctcc tgcgcagcc gcggccgaaa ccggccgggg ccagcagccc tgcgcccagg 180
 acggcgctgc agccgcagga gtcggtgggc gcggggggccg gcgaggcggc gctgcccctg 240
 cccgggctgc tcgtacc 258

<210> 76
 <211> 235
 <212> PRT
 <213> Homo sapiens

<400> 76

Leu Pro Ala Gln Val Ala Phe Thr Pro Tyr Ala Pro Glu Pro Gly Ser
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Thr Cys Arg Leu Arg Glu Tyr Tyr Asp Gln Thr Ala Gln Met Cys Cys
 20 25 30

Ser Lys Cys Ser Pro Gly Gln His Ala Lys Val Phe Cys Thr Lys Thr
 35 40 45

Ser Asp Thr Val Cys Asp Ser Cys Glu Asp Ser Thr Tyr Thr Gln Leu
 50 55 60

Trp Asn Trp Val Pro Glu Cys Leu Ser Cys Gly Ser Arg Cys Ser Ser
 65 70 75 80

Asp Gln Val Glu Thr Gln Ala Cys Thr Arg Glu Gln Asn Arg Ile Cys
 85 90 95

Thr Cys Arg Pro Gly Trp Tyr Cys Ala Leu Ser Lys Gln Glu Gly Cys
 100 105 110

Arg Leu Cys Ala Pro Leu Arg Lys Cys Arg Pro Gly Phe Gly Val Ala
 115 120 125

Arg Pro Gly Thr Glu Thr Ser Asp Val Val Cys Lys Pro Cys Ala Pro
 130 135 140

Gly Thr Phe Ser Asn Thr Thr Ser Ser Thr Asp Ile Cys Arg Pro His
 145 150 155 160

Gln Ile Cys Asn Val Val Ala Ile Pro Gly Asn Ala Ser Met Asp Ala
 165 170 175

Val Cys Thr Ser Thr Ser Pro Thr Arg Ser Met Ala Pro Gly Ala Val
 180 185 190

His Leu Pro Gln Pro Val Ser Thr Arg Ser Gln His Thr Gln Pro Thr
 195 200 205

Pro Glu Pro Ser Thr Ala Pro Ser Thr Ser Phe Leu Leu Pro Met Gly
 210 215 220

Pro Ser Pro Pro Ala Glu Gly Ser Thr Gly Asp
 225 230 235

<210> 77
 <211> 185
 <212> PRT
 <213> Homo sapiens

<400> 77

Leu Pro Ala Gln Val Ala Phe Thr Pro Tyr Ala Pro Glu Pro Gly Ser
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Thr Cys Arg Leu Arg Glu Tyr Tyr Asp Gln Thr Ala Gln Met Cys Cys
 20 25 30

Ser Lys Cys Ser Pro Gly Gln His Ala Lys Val Phe Cys Thr Lys Thr
 35 40 45

Ser Asp Thr Val Cys Asp Ser Cys Glu Asp Ser Thr Tyr Thr Gln Leu
 50 55 60

Trp Asn Trp Val Pro Glu Cys Leu Ser Cys Gly Ser Arg Cys Ser Ser
 65 70 75 80

Asp Gln Val Glu Thr Gln Ala Cys Thr Arg Glu Gln Asn Arg Ile Cys
 85 90 95

Thr Cys Arg Pro Gly Trp Tyr Cys Ala Leu Ser Lys Gln Glu Gly Cys
 100 105 110

Arg Leu Cys Ala Pro Leu Arg Lys Cys Arg Pro Gly Phe Gly Val Ala
 115 120 125

Arg Pro Gly Thr Glu Thr Ser Asp Val Val Cys Lys Pro Cys Ala Pro
 130 135 140

Gly Thr Phe Ser Asn Thr Thr Ser Ser Thr Asp Ile Cys Arg Pro His
 145 150 155 160

Gln Ile Cys Asn Val Val Ala Ile Pro Gly Asn Ala Ser Met Asp Ala
165 170 175

Val Cys Thr Ser Thr Ser Pro Thr Arg
180 185

<210> 78
<211> 163
<212> PRT
<213> Homo sapiens

<400> 78

Leu Pro Ala Gln Val Ala Phe Thr Pro Tyr Ala Pro Glu Pro Gly Ser
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Thr Cys Arg Leu Arg Glu Tyr Tyr Asp Gln Thr Ala Gln Met Cys Cys
20 25 30

Ser Lys Cys Ser Pro Gly Gln His Ala Lys Val Phe Cys Thr Lys Thr
35 40 45

Ser Asp Thr Val Cys Asp Ser Cys Glu Asp Ser Thr Tyr Thr Gln Leu
50 55 60

Trp Asn Trp Val Pro Glu Cys Leu Ser Cys Gly Ser Arg Cys Ser Ser
65 70 75 80

Asp Gln Val Glu Thr Gln Ala Cys Thr Arg Glu Gln Asn Arg Ile Cys
85 90 95

Thr Cys Arg Pro Gly Trp Tyr Cys Ala Leu Ser Lys Gln Glu Gly Cys
100 105 110

Arg Leu Cys Ala Pro Leu Arg Lys Cys Arg Pro Gly Phe Gly Val Ala
115 120 125

Arg Pro Gly Thr Glu Thr Ser Asp Val Val Cys Lys Pro Cys Ala Pro
130 135 140

Gly Thr Phe Ser Asn Thr Thr Ser Ser Thr Asp Ile Cys Arg Pro His
145 150 155 160

Gln Ile Cys

<210> 79
 <211> 142
 <212> PRT
 <213> Homo sapiens

<400> 79

Leu Pro Ala Gln Val Ala Phe Thr Pro Tyr Ala Pro Glu Pro Gly Ser
 1 5 10 15

Thr Cys Arg Leu Arg Glu Tyr Tyr Asp Gln Thr Ala Gln Met Cys Cys
 20 25 30

Ser Lys Cys Ser Pro Gly Gln His Ala Lys Val Phe Cys Thr Lys Thr
 35 40 45

Ser Asp Thr Val Cys Asp Ser Cys Glu Asp Ser Thr Tyr Thr Gln Leu
 50 55 60

Trp Asn Trp Val Pro Glu Cys Leu Ser Cys Gly Ser Arg Cys Ser Ser
 65 70 75 80

Asp Gln Val Glu Thr Gln Ala Cys Thr Arg Glu Gln Asn Arg Ile Cys
 85 90 95

Thr Cys Arg Pro Gly Trp Tyr Cys Ala Leu Ser Lys Gln Glu Gly Cys
 100 105 110

Arg Leu Cys Ala Pro Leu Arg Lys Cys Arg Pro Gly Phe Gly Val Ala
 115 120 125

Arg Pro Gly Thr Glu Thr Ser Asp Val Val Cys Lys Pro Cys
 130 135 140

<210> 80
 <211> 157
 <212> PRT
 <213> Homo sapiens

<400> 80

Val Arg Ser Ser Ser Arg Thr Pro Ser Asp Lys Pro Val Ala His Val
 1 5 10 15

Val Ala Asn Pro Gln Ala Glu Gly Gln Leu Gln Trp Leu Asn Arg Arg

	20		25		30
Ala Asn Ala Leu Leu Ala Asn Gly Val Glu Leu Arg Asp Asn Gln Leu	35	40	45		
Val Val Pro Ser Glu Gly Leu Tyr Leu Ile Tyr Ser Gln Val Leu Phe	50	55	60		
Lys Gly Gln Gly Cys Pro Ser Thr His Val Leu Leu Thr His Thr Ile	65	70	75	80	
Ser Arg Ile Ala Val Ser Tyr Gln Thr Lys Val Asn Leu Leu Ser Ala	85	90	95		
Ile Lys Ser Pro Cys Gln Arg Glu Thr Pro Glu Gly Ala Glu Ala Lys	100	105	110		
Pro Trp Tyr Glu Pro Ile Tyr Leu Gly Gly Val Phe Gln Leu Glu Lys	115	120	125		
Gly Asp Arg Leu Ser Ala Glu Ile Asn Arg Pro Asp Tyr Leu Asp Phe	130	135	140		
Ala Glu Ser Gly Gln Val Tyr Phe Gly Ile Ile Ala Leu	145	150	155		
<210> 81					
<211> 51					
<212> PRT					
<213> Homo sapiens					
<400> 81					
Glu Pro Pro Thr Gln Lys Pro Lys Lys Leu Val Asn Ala Lys Lys Asp	1	5	10	15	
Val Val Asn Thr Lys Met Phe Glu Glu Leu Lys Ser Arg Leu Asp Thr	20	25	30		
Leu Ala Gln Glu Val Ala Leu Leu Lys Glu Gln Gln Ala Leu Gln Thr	35	40	45		
Val Cys`Leu	50				

<210> 82
 <211> 39
 <212> DNA
 <213> Artificial

 <220>
 <223> oligonucleotide primer

 <400> 82
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 <210> 83
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 <212> DNA
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 <220>
 <223> oligonucleotide primer

 <400> 83
 caccacggta ccgatctggt ggggcctgca aat 33

 <210> 84
 <211> 738
 <212> DNA
 <213> Artificial

 <220>
 <223> AD1D4-I162-tripB

 <400> 84
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 caacatgcaa aagtcttctg taccaagacc tcggacaccg tgtgtgactc ctgtgaggac 180
 agcacatata ccagctctg gaactgggtt cccgagtgtc tgagctgtgg ctcccgtgt 240
 agctctgacc aggtggaaac tcaagcctgc actcgggaac agaaccgcat ctgcacctgc 300
 aggcccgggt ggtactgcgc gctgagcaag caggaggggt gccggctgtg cgcgccgtg 360
 cgcaagtgcc gcccgggctt cggcgtggcc agaccaggaa ctgaaacatc agacgtgggtg 420
 tgcaagccct gtgccccggg gacgttctcc aacacgactt catccacgga tatttgcagg 480
 ccccaccaga tcggtaccga gccaccaacc cagaagccca agaagattgt aaatgccaaag 540
 aaagatgttg tgaacacaaa gatgtttgag gagctcaaga gccgtctgga caccctggcc 600
 caggaggtgg ccctgctgaa ggagcagcag gccctgcaga cggctctcct gaagggtcta 660
 gaacaaaaac tcattctcaga agaggatctg aatagcgccg tcgaccatca tcattcatcat 720

cattgaaagc tgaattcc

738

<210> 85
<211> 51
<212> DNA
<213> Artificial

<220>
<223> oligonucleotide primer

<400> 85
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51

<210> 86
<211> 810
<212> DNA
<213> Artificial

<220>
<223> AD1D4-GSS-tripB

<400> 86
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caacatgcaa aagtcttctg taccaagacc tcggacaccg tgtgtgactc ctgtgaggac 180
agcacataca ccagctctg gaactgggtt cccgagtgtg tgagctgtgg ctcccgctgt 240
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aggcccggct ggtactgccc gctgagcaag caggaggggt gccggctgtg cgcgccgctg 360
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tgcaagccct gtgccccggg gacgttctcc aacacgactt catccacgga tatttgcagg 480
ccccaccaga tctgtaacgt ggtggccatc cctgggaatg caagcatgga tgcagtctgc 540
acgtccacgt cctccgggtc ctccggtacc gagccaccaa cccagaagcc caagaagatt 600
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gacaccctgg ccaggaggt ggccctgctg aaggagcagc aggcctgca gacgggtctcc 720
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catcatcatc atcattgaaa gctgaattcc 810

<210> 87
<211> 39
<212> DNA

<213> Artificial

<220>

<223> oligonucleotide primer

<400> 87

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39

<210> 88

<211> 957

<212> DNA

<213> Artificial

<220>

<223> AD1D4-D235-tripB

<400> 88

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caacatgcaa aagtcttctg taccaagacc tcggacaccg tgtgtgactc ctgtgaggac	180
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cgcaagtgcc gcccgggctt cggcgtggcc agaccaggaa ctgaaacatc agacgtgggtg	420
tgcaagccct gtgccccggg gacgttctcc aacacgactt catccacgga tatttgcagg	480
ccccaccaga tctgtaacgt ggtggccatc cctgggaatg caagcatgga tgcagtctgc	540
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tccacacgat cccaacacac gcagccaact ccagaacca gcaactgtcc aagcacctcc	660
ttctgtctcc caatggggcc cagcccccca gctgaaggga gcaactggcg cggtagcgag	720
ccaccaaccc agaagcccaa gaagattgta aatgccaaaga aagatgttgt gaacacaaag	780
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gagcagcagg ccctgcagac ggtctccctg aagggtctag aacaaaaact catctcagaa	900
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<210> 89

<211> 711

<212> DNA

<213> Artificial

<220>

<223> AD1D4-I162-I10-TripB

<400> 89

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caacatgcaa aagtcttctg taccaagacc tcggacaccg tgtgtgactc ctgtgaggac      180
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agctctgacc aggtggaaac tcaagcctgc actcgggaac agaaccgcat ctgcacctgc      300
aggcccggct ggtactgctg gctgagcaag caggaggggt gccggctgtg cgcgccgtg      360
cgcaagtgcc gcccgggctt cggcgtggcc agaccaggaa ctgaaacatc agacgtggtg      420
tgcaagccct gtgccccggg gacgttctcc aacacgactt catccacgga tatttgcagg      480
ccccaccaga tcggtaccat tgtaaagcc aagaaagatg ttgtgaacac aaagatgttt      540
gaggagctca agagccgtct ggacaccctg gccaggagg tggccctgct gaaggagcag      600
caggccctgc agacggtctc cctgaagggt ctagaacaaa aactcatctc agaagaggat      660
ctgaatagcg ccgtcgacca tcatcatcat catcattgaa agctgaattc c              711
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<210> 90

<211> 711

<212> DNA

<213> Artificial

<220>

<223> AD1D4-GSS-I10-tripB

<400> 90

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caacatgcaa aagtcttctg taccaagacc tcggacaccg tgtgtgactc ctgtgaggac      180
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aggcccggct ggtactgctg gctgagcaag caggaggggt gccggctgtg cgcgccgtg      360
cgcaagtgcc gcccgggctt cggcgtggcc agaccaggaa ctgaaacatc agacgtggtg      420
tgcaagccct gtgccccggg gacgttctcc aacacgactt catccacgga tatttgcagg      480
ccccaccaga tcggtaccat tgtaaagcc aagaaagatg ttgtgaacac aaagatgttt      540
gaggagctca agagccgtct ggacaccctg gccaggagg tggccctgct gaaggagcag      600
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caggccctgc agacggtctc cctgaagggt ctagaacaaa aactcatctc agaagaggat 660
 ctgaatagcg ccgctgacca tcatcatcat catcattgaa agctgaattc c 711

<210> 91
 <211> 930
 <212> DNA
 <213> Artificial

<220>
 <223> AD1D4-D235-I10-tripB

<400> 91
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 cggctcagag aatactatga ccagacagct cagatgtgct gcagcaaattg ctcgccgggc 120
 caacatgcaa aagtcttctg taccaagacc tcggacaccg tgtgtgactc ctgtgaggac 180
 agcacatata ccagctctg gaactggggt cccgagtgct tgagctgtgg ctcccgtgtg 240
 agctctgacc aggtggaaac tcaagcctgc actcgggaac agaaccgcat ctgcacctgc 300
 aggcccgggt ggtactgcgc gctgagcaag caggaggggt gccggctgtg cgcgccgctg 360
 cgcaagtgcc gcccgggctt cggcgtggcc agaccaggaa ctgaaacatc agacgtggtg 420
 tgcaagccct gtgccccggg gacgttctcc aacacgactt catccacgga tatttgagg 480
 ccccaccaga tctgtaacgt ggtggccatc cctgggaatg caagcatgga tgcagtctgc 540
 acgtccacgt cccccaccg gagtatggcc ccaggggcag tacacttacc ccagccagtg 600
 tccacacgat cccaacacac gcagccaact ccagaacca gcaactgctcc aagcacctcc 660
 ttctgctcc caatgggccc cagcccccca gctgaaggga gcaactggca cggtagcatt 720
 gtaaatgcca agaaagatgt tgtgaacaca aagatgtttg aggagctcaa gagccgtctg 780
 gacaccctgg ccaggaggt ggccctgctg aaggagcagc aggcctgca gacggtctcc 840
 ctgaagggtc tagaacaaaa actcatctca gaagaggatc tgaatagcgc cgtcgaccat 900
 catcatcatc atcattgaaa gctgaattcc 930

<210> 92
 <211> 31
 <212> DNA
 <213> Artificial

<220>
 <223> pKpnI-V17

<400> 92
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<210> 93
 <211> 35
 <212> DNA
 <213> Artificial

<220>
 <223> pBAD6H

<400> 93
 ggctcgggaat tcaatgatga tgatgatgat ggtcg 35

<210> 94
 <211> 762
 <212> DNA
 <213> Artificial

<220>
 <223> AD1D4-GSS-V17-tripB

<400> 94
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 cggctcagag aatactatga ccagacagct cagatgtgct gcagcaaatg ctcgccgggc 120
 caacatgcaa aagtcttctg taccaagacc tcggacaccg tgtgtgactc ctgtgaggac 180
 agcacatata ccagctctg gaactgggtt cccgagtgtg tgagctgtgg ctcccgctgt 240
 agctctgacc aggtggaaac tcaagcctgc actcgggaac agaaccgcat ctgcacctgc 300
 aggcccggt ggtactgcgc gctgagcaag caggaggggt gccggctgtg cgcgccgctg 360
 cgcaagtgcc gcccgggctt cggcgtggcc agaccaggaa ctgaaacatc agacgtggtg 420
 tgcaagccct gtgccccggg gacgttctcc aacacgactt catccacgga tatttgcagg 480
 ccccaccaga tctgtaacgt ggtggccatc cctgggaatg caagcatgga tgcagtctgc 540
 acgtccacgt cctccgggtc ctccggtacc gttgtgaaca caaagatgtt tgaggagctc 600
 aagagccgtc tggacaccct ggcccaggag gtggccctgc tgaaggagca gcaggccctg 660
 cagacggtct ccctgaagg tctagaacaa aaactcatct cagaagagga tctgaatagc 720
 gccgtcgacc atcatcatca tcatcattga aagctgaatt cc 762

<210> 95
 <211> 909
 <212> DNA
 <213> Artificial

<220>
 <223> AD1D4-D235-V17-tripB

<400> 95
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cggtcagag aatactatga ccagacagct cagatgtgct gcagcaaata ctgccgggc 120
caacatgcaa aagtcttctg taccaagacc tcggacaccg tgtgtgactc ctgtgaggac 180
agcacatata ccagctctg gaactgggtt cccgagtgtc tgagctgtgg ctcccgtgt 240
agctctgacc aggtggaaac tcaagcctgc actcgggaac agaaccgcat ctgcacctgc 300
aggcccggct ggtactgcgc gctgagcaag caggaggggt gccggctgtg cgcgccgtg 360
cgcaagtgcc gcccgggctt cggcgtggcc agaccaggaa ctgaaacatc agacgtggtg 420
tgcaagccct gtgccccggg gacgttctcc aacacgactt catccacgga tatttgcagg 480
ccccaccaga tctgtaacgt ggtggccatc cctgggaatg caagcatgga tgcagtctgc 540
acgtccacgt cccccaccg gagtatggcc ccaggggcag tacacttacc ccagccagtg 600
tccacacgat cccaacacac gcagccaact ccagaacca gcaactgtcc aagcacctcc 660
ttcctgtctc caatgggccc cagcccccca gctgaaggga gcaactggcg cggtaccgtt 720
gtgaacacaa agatgtttga ggagctcaag agcgtctgtg acaccctggc ccaggaggtg 780
gccctgtgta aggagcagca ggccctgcag acggtctccc tgaagggtct agaacaaaaa 840
ctcatctcag aagaggatct gaatagcgcc gtcgaccatc atcatcatca tcattgaaag 900
ctgaattcc 909

<210> 96
<211> 181
<212> PRT
<213> Homo sapiens

<400> 96

Glu Pro Pro Thr Gln Lys Pro Lys Lys Ile Val Asn Ala Lys Lys Asp
1 5 10 15

Val Val Asn Thr Lys Met Phe Glu Glu Leu Lys Ser Arg Leu Asp Thr
20 25 30

Leu Ala Gln Glu Val Ala Leu Leu Lys Glu Gln Gln Ala Leu Gln Thr
35 40 45

Val Cys Leu Lys Gly Thr Lys Val His Met Lys Cys Phe Leu Ala Phe
50 55 60

Thr Gln Thr Lys Thr Phe His Glu Ala Ser Glu Asp Cys Ile Ser Arg
65 70 75 80

Gly Gly Thr Leu Ser Thr Pro Gln Thr Gly Ser Glu Asn Asp Ala Leu
85 90 95

Tyr Glu Tyr Leu Arg Gln Ser Val Gly Asn Glu Ala Glu Ile Trp Leu
100 105 110

Gly Leu Asn Asp Met Ala Ala Glu Gly Thr Trp Val Asp Met Thr Gly
115 120 125

Ala Arg Ile Ala Tyr Lys Asn Trp Glu Thr Glu Ile Thr Ala Gln Pro
130 135 140

Asp Gly Gly Lys Thr Glu Asn Cys Ala Val Leu Ser Gly Ala Ala Asn
145 150 155 160

Gly Lys Trp Phe Asp Lys Arg Cys Arg Asp Gln Leu Pro Tyr Ile Cys
165 170 175

Gln Phe Gly Ile Val
180

<210> 97
<211> 137
<212> PRT
<213> Homo sapiens

<400> 97

Ala Leu Gln Thr Val Cys Leu Lys Gly Thr Lys Val His Met Lys Cys
1 5 10 15

Phe Leu Ala Phe Thr Gln Thr Lys Thr Phe His Glu Ala Ser Glu Asp
20 25 30

Cys Ile Ser Arg Gly Gly Thr Leu Ser Thr Pro Gln Thr Gly Ser Glu
35 40 45

Asn Asp Ala Leu Tyr Glu Tyr Leu Arg Gln Ser Val Gly Asn Glu Ala
50 55 60

Glu Ile Trp Leu Gly Leu Asn Asp Met Ala Ala Glu Gly Thr Trp Val

65		70		75		80
Asp Met Thr Gly Ala Arg Ile Ala Tyr Lys Asn Trp Glu Thr Glu Ile						
	85		90		95	
Thr Ala Gln Pro Asp Gly Gly Lys Thr Glu Asn Cys Ala Val Leu Ser						
	100		105		110	
Gly Ala Ala Asn Gly Lys Trp Phe Asp Lys Arg Cys Arg Asp Gln Leu						
	115		120		125	
Pro Tyr Ile Cys Gln Phe Gly Ile Val						
	130		135			

<210> 98
 <211> 102
 <212> DNA
 <213> Artificial

<220>
 <223> TN-lib3-tprev

<220>
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 <222> (22)..(23)
 <223> randomised

<220>
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 <222> (25)..(26)
 <223> randomised

<220>
 <221> misc_feature
 <222> (28)..(29)
 <223> randomised

<220>
 <221> misc_feature
 <222> (31)..(32)
 <223> randomised

<220>
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 <222> (34)..(35)
 <223> randomised

<220>
 <221> misc_feature
 <222> (37)..(38)
 <223> randomised

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<220>
<221> misc_feature
<222> (40)..(41)
<223> randomised

<400> 98
gagatctggc tgggcctcaa cnsnsnsns nnsnsnsns nstgggtgga catgaccggt      60

accgcgcatcg cctacaagaa ctgggagact gagatcaccg cg                        102


<210> 99
<211> 94
<212> DNA
<213> Artificial

<220>
<223> TN-lib2-tprev

<220>
<221> misc_feature
<222> (17)..(17)
<223> randomised

<220>
<221> misc_feature
<222> (18)..(18)
<223> randomised

<220>
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<222> (20)..(21)
<223> randomised

<220>
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<222> (23)..(24)
<223> randomised

<220>
<221> misc_feature
<222> (29)..(29)
<223> randomised

<220>
<221> misc_feature
<222> (30)..(30)
<223> randomised

<220>
<221> misc_feature
<222> (32)..(33)
<223> randomised

<400> 99

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gctgggcctc aacgacnnsn nsnnsgagnn snnstgggtg gacatgaccg gtacccgcat 60
 cgctacaag aactgggaga ctgagatcac cgcg 94

<210> 100
 <211> 108
 <212> DNA
 <213> Artificial

<220>
 <223> TN-lib3-tpfo

<220>
 <221> misc_feature
 <222> (63)..(64)
 <223> randomised

<220>
 <221> misc_feature
 <222> (66)..(67)
 <223> randomised

<220>
 <221> misc_feature
 <222> (69)..(70)
 <223> randomised

<220>
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 <222> (72)..(73)
 <223> randomised

<220>
 <221> misc_feature
 <222> (75)..(76)
 <223> randomised

<220>
 <221> misc_feature
 <222> (78)..(79)
 <223> randomised

<400> 100
 cgcggcagcg cttgtcgaac cacttgccgt tggccgcgcc tgacaggacc gcgcagttct 60
 csnnnsnnsn snnsnnsna tcgggttgcg cggtgatctc agtctccc 108

<210> 101
 <211> 102
 <212> DNA
 <213> Artificial

<220>
 <223> TN-lib2-tpfo

<220>
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 <222> (63)..(64)
 <223> randomised

<220>
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 <222> (66)..(67)
 <223> randomised

<220>
 <221> misc_feature
 <222> (69)..(70)
 <223> randomised

<220>
 <221> misc_feature
 <222> (72)..(73)
 <223> randomised

<400> 101
 cgcggcagcg cttgtcgaac cacttgccgt tggccgcgcc tgacaggacc gcgcagttct 60
 csnnnsnnnn snnatcgggt tgcgcggtga tctcagtcctc cc 102

<210> 102
 <211> 137
 <212> PRT
 <213> Artificial

<220>
 <223> TN3-2

<400> 102

Ala	Leu	Gln	Thr	Val	Cys	Leu	Lys	Gly	Thr	Lys	Val	His	Met	Lys	Cys
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Phe	Leu	Ala	Phe	Thr	Gln	Thr	Lys	Thr	Phe	His	Glu	Ala	Ser	Glu	Asp
			20					25						30	

Cys	Ile	Ser	Arg	Gly	Gly	Thr	Leu	Ser	Thr	Pro	Gln	Thr	Gly	Ser	Glu
		35					40					45			

Asn	Asp	Ala	Leu	Tyr	Glu	Tyr	Leu	Arg	Gln	Ser	Val	Gly	Asn	Glu	Ala
	50					55					60				

Glu	Ile	Trp	Leu	Gly	Leu	Asn	Lys	Val	Arg	Ser	Arg	Tyr	Phe	Trp	Met
65					70					75				80	

Asp Met Thr Gly Thr Arg Ile Ala Tyr Lys Asn Trp Glu Thr Glu Ile
85 90 95

Thr Ala Gln Pro Asp Pro Arg His Thr Glu Asn Cys Ala Val Leu Ser
100 105 110

Gly Ala Ala Asn Gly Lys Trp Phe Asp Lys Arg Cys Arg Asp Gln Leu
115 120 125

Pro Tyr Ile Cys Gln Phe Gly Ile Val
130 135

<210> 103
<211> 137
<212> PRT
<213> Artificial

<220>
<223> TN3-2-B

<400> 103

Ala Leu Gln Thr Val Cys Leu Lys Gly Thr Lys Val His Met Lys Cys
1 5 10 15

Phe Leu Ala Phe Thr Gln Thr Lys Thr Phe His Glu Ala Ser Glu Asp
20 25 30

Cys Ile Ser Arg Gly Gly Thr Leu Ser Thr Pro Gln Thr Gly Ser Glu
35 40 45

Asn Asp Ala Leu Tyr Glu Tyr Leu Arg Gln Ser Val Gly Asn Glu Ala
50 55 60

Glu Ile Trp Leu Gly Leu Asn Lys Val Arg Ser Arg Tyr Phe Trp Met
65 70 75 80

Asp Met Thr Gly Thr Arg Ile Ala Tyr Lys Asn Trp Glu Thr Glu Ile
85 90 95

Thr Ala Gln Pro Asp Pro Thr Asn Asn Glu Asn Cys Ala Val Leu Ser
100 105 110

Gly Ala Ala Asn Gly Lys Trp Phe Gly Lys Arg Cys Arg Asp Gln Leu
115 120 125

Pro Tyr Ile Cys Gln Phe Gly Ile Val
130 135

<210> 104
<211> 137
<212> PRT
<213> Artificial

<220>
<223> TN3-2-C

<400> 104

Ala Leu Gln Thr Val Cys Leu Lys Gly Thr Lys Val His Met Lys Cys
1 5 10 15

Phe Leu Ala Phe Thr Gln Thr Lys Thr Phe His Glu Ala Ser Glu Asp
20 25 30

Cys Ile Ser Arg Gly Gly Thr Leu Ser Thr Pro Gln Thr Gly Ser Glu
35 40 45

Asn Asp Ala Leu Tyr Glu Tyr Leu Arg Gln Ser Val Gly Asn Glu Ala
50 55 60

Glu Ile Trp Leu Gly Leu Asn Lys Val Arg Ser Arg Tyr Phe Trp Val
65 70 75 80

Asp Met Thr Gly Thr Arg Ile Ala Tyr Lys Asn Trp Glu Thr Glu Ile
85 90 95

Thr Ala Gln Pro Asp Pro Thr Asn Arg Glu Asn Cys Ala Val Leu Ser
100 105 110

Gly Ala Ala Asn Gly Lys Trp Phe Asp Lys Arg Cys Arg Asp Gln Leu
115 120 125

Pro Tyr Ile Cys Gln Phe Gly Ile Val
130 135

<210> 105
<211> 137
<212> PRT
<213> Artificial

<220>

<223> TN3-2-D

<400> 105

Ala Leu Gln Thr Val Cys Leu Lys Gly Thr Lys Val His Met Lys Cys
1 5 10 15

Phe Leu Ala Phe Thr Gln Thr Lys Thr Phe His Glu Ala Ser Glu Asp
20 25 30

Cys Ile Ser Arg Gly Gly Thr Leu Ser Thr Pro Gln Thr Gly Ser Glu
35 40 45

Asn Asp Ala Leu Tyr Glu Tyr Leu Arg Gln Ser Val Gly Asn Glu Ala
50 55 60

Glu Ile Trp Leu Gly Leu Asn Lys Val Arg Ser Arg Tyr Phe Trp Ile
65 70 75 80

Asp Met Thr Gly Thr Arg Ile Ala Tyr Lys Asn Trp Glu Thr Glu Ile
85 90 95

Thr Ala Gln Pro Asp Pro Asn Asn Arg Glu Asn Cys Ala Val Leu Ser
100 105 110

Gly Ala Ala Asn Gly Lys Trp Phe Gly Lys Arg Cys Arg Asp Gln Leu
115 120 125

Pro Tyr Ile Cys Gln Phe Gly Ile Val
130 135

<210> 106

<211> 181

<212> PRT

<213> Artificial

<220>

<223> TN-2-B

<400> 106

Glu Pro Pro Thr Gln Lys Pro Lys Lys Ile Val Asn Ala Lys Lys Asp
1 5 10 15

Val Val Asn Thr Lys Met Phe Glu Glu Leu Lys Ser Arg Leu Asp Thr
20 25 30

Leu Ala Gln Glu Val Ala Leu Leu Lys Glu Gln Gln Ala Leu Gln Thr
35 40 45

Val Cys Leu Lys Gly Thr Lys Val His Met Lys Cys Phe Leu Ala Phe
50 55 60

Thr Gln Thr Lys Thr Phe His Glu Ala Ser Glu Asp Cys Ile Ser Arg
65 70 75 80

Gly Gly Thr Leu Ser Thr Pro Gln Thr Gly Ser Glu Asn Asp Ala Leu
85 90 95

Tyr Glu Tyr Leu Arg Gln Ser Val Gly Asn Glu Ala Glu Ile Trp Leu
100 105 110

Gly Leu Asn Lys Val Arg Ser Arg Tyr Phe Trp Met Asp Met Thr Gly
115 120 125

Thr Arg Ile Ala Tyr Lys Asn Trp Glu Thr Glu Ile Thr Ala Gln Pro
130 135 140

Asp Pro Thr Asn Asn Glu Asn Cys Ala Val Leu Ser Gly Ala Ala Asn
145 150 155 160

Gly Lys Trp Phe Gly Lys Arg Cys Arg Asp Gln Leu Pro Tyr Ile Cys
165 170 175

Gln Phe Gly Ile Val
180

<210> 107
<211> 181
<212> PRT
<213> Artificial

<220>
<223> TN-2-D

<400> 107

Glu Pro Pro Thr Gln Lys Pro Lys Lys Ile Val Asn Ala Lys Lys Asp
1 5 10 15

Val Val Asn Thr Lys Met Phe Glu Glu Leu Lys Ser Arg Leu Asp Thr

20	25	30
Leu Ala Gln Glu Val Ala Leu Leu Lys Glu Gln Gln Ala Leu Gln Thr		
35	40	45
Val Cys Leu Lys Gly Thr Lys Val His Met Lys Cys Phe Leu Ala Phe		
50	55	60
Thr Gln Thr Lys Thr Phe His Glu Ala Ser Glu Asp Cys Ile Ser Arg		
65	70	75
Gly Gly Thr Leu Ser Thr Pro Gln Thr Gly Ser Glu Asn Asp Ala Leu		
	85	90
		95
Tyr Glu Tyr Leu Arg Gln Ser Val Gly Asn Glu Ala Glu Ile Trp Leu		
100	105	110
Gly Leu Asn Lys Val Arg Ser Arg Tyr Phe Trp Ile Asp Met Thr Gly		
115	120	125
Thr Arg Ile Ala Tyr Lys Asn Trp Glu Thr Glu Ile Thr Ala Gln Pro		
130	135	140
Asp Pro Asn Asn Arg Glu Asn Cys Ala Val Leu Ser Gly Ala Ala Asn		
145	150	155
		160
Gly Lys Trp Phe Gly Lys Arg Cys Arg Asp Gln Leu Pro Tyr Ile Cys		
	165	170
		175
Gln Phe Gly Ile Val		
180		
<210> 108		
<211> 181		
<212> PRT		
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<220>		
<223> TN-2-C		
<400> 108		
Glu Pro Pro Thr Gln Lys Pro Lys Lys Ile Val Asn Ala Lys Lys Asp		
1	5	10
		15

Val Val Asn Thr Lys Met Phe Glu Glu Leu Lys Ser Arg Leu Asp Thr
20 25 30

Leu Ala Gln Glu Val Ala Leu Leu Lys Glu Gln Gln Ala Leu Gln Thr
35 40 45

Val Cys Leu Lys Gly Thr Lys Val His Met Lys Cys Phe Leu Ala Phe
50 55 60

Thr Gln Thr Lys Thr Phe His Glu Ala Ser Glu Asp Cys Ile Ser Arg
65 70 75 80

Gly Gly Thr Leu Ser Thr Pro Gln Thr Gly Ser Glu Asn Asp Ala Leu
85 90 95

Tyr Glu Tyr Leu Arg Gln Ser Val Gly Asn Glu Ala Glu Ile Trp Leu
100 105 110

Gly Leu Asn Lys Val Arg Ser Arg Tyr Phe Trp Val Asp Met Thr Gly
115 120 125

Thr Arg Ile Ala Tyr Lys Asn Trp Glu Thr Glu Ile Thr Ala Gln Pro
130 135 140

Asp Pro Thr Asn Arg Glu Asn Cys Ala Val Leu Ser Gly Ala Ala Asn
145 150 155 160

Gly Lys Trp Phe Asp Lys Arg Cys Arg Asp Gln Leu Pro Tyr Ile Cys
165 170 175

Gln Phe Gly Ile Val
180

<210> 109
<211> 256
<212> PRT
<213> Artificial

<220>
<223> AD1D4-GSS-I10

<400> 109

Met Gly Ser Met Ala Gln Val Ala Phe Thr Pro Tyr Ala Pro Glu Pro
1 5 10 15

Gly Ser Thr Cys Arg Leu Arg Glu Tyr Tyr Asp Gln Thr Ala Gln Met
20 25 30

Cys Cys Ser Lys Cys Ser Pro Gly Gln His Ala Lys Val Phe Cys Thr
35 40 45

Lys Thr Ser Asp Thr Val Cys Asp Ser Cys Glu Asp Ser Thr Tyr Thr
50 55 60

Gln Leu Trp Asn Trp Val Pro Glu Cys Leu Ser Cys Gly Ser Arg Cys
65 70 75 80

Ser Ser Asp Gln Val Glu Thr Gln Ala Cys Thr Arg Glu Gln Asn Arg
85 90 95

Ile Cys Thr Cys Arg Pro Gly Trp Tyr Cys Ala Leu Ser Lys Gln Glu
100 105 110

Gly Cys Arg Leu Cys Ala Pro Leu Arg Lys Cys Arg Pro Gly Phe Gly
115 120 125

Val Ala Arg Pro Gly Thr Glu Thr Ser Asp Val Val Cys Lys Pro Cys
130 135 140

Ala Pro Gly Thr Phe Ser Asn Thr Thr Ser Ser Thr Asp Ile Cys Arg
145 150 155 160

Pro His Gln Ile Cys Asn Val Val Ala Ile Pro Gly Asn Ala Ser Met
165 170 175

Asp Ala Val Cys Thr Ser Thr Ser Ser Gly Ser Ser Gly Thr Ile Val
180 185 190

Asn Ala Lys Lys Asp Val Val Asn Thr Lys Met Phe Glu Glu Leu Lys
195 200 205

Ser Arg Leu Asp Thr Leu Ala Gln Glu Val Ala Leu Leu Lys Glu Gln
210 215 220

Gln Ala Leu Gln Thr Val Ser Leu Lys Gly Leu Glu Gln Lys Leu Ile
225 230 235 240

Ser Glu Glu Asp Leu Asn Ser Ala Val Asp His His His His His His
245 250 255